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MOTOROLA INC 600 NORTH US HIGHWAY 45 ROOM AS437 LIBERTYVILLE, IL 60048-5343			DUONG, OANH L	
			ART UNIT	PAPER NUMBER
			2155	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/083,876	RIORDAN, KENNETH			
		Examiner	Art Unit			
		Oanh Duong	2155			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on 14 Oc	ctober 2005				
•		action is non-final.				
· <u>-</u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠	4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)[5) Claim(s) is/are allowed.					
6)🖂	☑ Claim(s) <u>1-19</u> is/are rejected.					
7)						
8)□	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 10/14/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa				

DETAILED ACTION

1. Claims 1-19 are presented for examination.

Specification Objection.

2. The disclosure is objected to because the summary of the invention is missing.

Brief Summary of the Invention: See MPEP § 608.01(d). A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting

directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Tanaka et al. (Tanaka) (US 6,671,509 B1).

Regarding claim 1, Tanaka teaches a network software downloading method (Fig. 3), comprising:

communicating terminal unique information for the downloading of common software content from the network to a plurality of terminals in the network on corresponding dedicated communication channels for each terminal (i.e., designating of downloading channel is transmitted from the base station to the requesting mobile station(s) using a slow associated control channel, col. 14 lines 26-44)

transferring the common software content from the network to the plurality of terminals on a shared communication channel (i.e., transmits these system software through the broadcast channel, col. 8 lines 20-22).

Regarding claim 2, Tanaka teaches the method of claim 1

receiving a request for the common software content from a plurality of terminals on corresponding dedicated communication channels for each terminal (i.e., the base station waits for a download request from the mobile station, col. 7 lines 31-32);

transmitting the common software content from the network to the plurality of terminals making the request on the shared communication channel after receiving the request (i.e., transmit these software through broadcast channel, col. 8 lines 22-23);

receiving confirmation from each of the plurality of terminals that received the software content on corresponding dedicated communication channels for each terminal after transmitting (i.e., the base station receives a download completion notice from the mobile station, col. 7 lines 47-49).

Regarding claim 3, Tanaka teaches sending a message to a plurality of terminals on corresponding dedicated communication channels to receive the common software content on a shared channel (i.e., a traffic channel used to transferred primarily user information, col. 8 lines 16-17).

Regarding claim 4, Tanaka teaches the method of claim 1, receiving confirmation from each of the plurality of terminals that received the common software content on corresponding dedicated communication channels for each terminal after transmitting (i.e., receives a download completion notice, col. 7 lines 47-49).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 5 and 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka in view of Wiehler (US 6,850,915 B1).

Regarding claim 5, Tanaka teaches the method of claim 1,

transmitting the common software content from the network to the plurality of terminals on the shared communication channel (i.e., software items are transmitted from the base station though the broadcast channel, col. 8 lines 42-43).

Tanaka does not teach transmitting a digital signature from the network to a plurality of terminals over corresponding dedicated communication channels for each terminal; and transmitting the common software content from the network to the plurality of terminals after transmitting the digital signature.

Wiehler teaches transmitting a digital signature from the network to terminal(s) (i.e., provided with a digital signature, col. 5 lines 34-43), and transmitting the software from the network to the terminal(s) (i.e., user now can click the software object desired for download, col. 5 line 57-58).

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to combine the teachings of Tanaka to include transmitting a digital to terminals and transmitting software from the network to the terminal(s) as taught by Wiehler because it would enhance the security of the system (Wiehler, col. 6 lines 17-19).

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Regarding claim 18, Tanaka teaches a radio communication network software downloading method (Fig. 3), comprising:

transmitting the common software content from the network to the plurality of terminals on the shared communication channel (i.e., software items are transmitted from the base station though the broadcast channel, col. 8 lines 42-43).

Tanaka does not teach transmitting a digital signature from the network to a plurality of terminals over corresponding dedicated communication channels for each terminal; and transmitting the common software content from the network to the plurality of terminals after transmitting the digital signature.

Wiehler teaches transmitting a digital signature from the network to terminal(s) (i.e., provided with a digital signature, col. 5 lines 34-43), and then transmitting the software from the network to the terminal(s) (i.e., user now can click the software object desired for download, col. 5 line 57-58).

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to combine the teachings of Tanaka to include transmitting a digital to terminals and then transmitting software from the network to the terminal(s) as taught by Wiehler because it would enhance the security of the system (Wiehler, col. 6 lines 17-19).

Regarding claim 19, Tanaka teaches the method of claim 18, receiving confirmation from each of the plurality of terminals that received the software content on corresponding dedicated communication channels for each terminal after

transmitting (i.e., mobile station 12 sends a download completion notice/confirmation to base station 2 after receiving the software, col. 7 lines 52-56).

5. Claims 6, 7,9-10, 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka in view of Varanasi (US 6,219,341 B1).

Regarding claim 6, Tanaka teaches the method of claim 1,

multiplexing a plurality of different common software content on the shared communication channel (i.e., supplying software from the base station to mobile station(s) based on a time-division multiplex transmission scheme using a broadcast channel, col. 8 lines 57-59).

Tanaka doe not explicitly teaches dynamically adjusting the plurality of different common software content multiplexed on the shared communication channel.

Varanasi teaches spread spectrum signals may be dynamically allocated (Fig. 2 col. 6 line 11 and 21-25).

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to combine the teaching of Tanaka to include the spread spectrum signals may be dynamically allocated because it would improve the bandwidth utilization of a channel so as to maximize the data throughput over the channel (Varanasi, col. 1 lines 48-49).

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Regarding claim 7, Tanaka teaches the method of claim 6. Tanaka teaches supplying software from the bass station to mobile station based on a time-division multiplex transmission scheme using a broadcast channel, col. 8 lines 57-59).

Tanaka does not explicitly teach dynamically adjusting the plurality of different common software content in proportion to a changing number of the plurality of terminals receiving the plurality of different common software content.

Varanasi teaches multiplexing a plurality of digital data streams over a communication channel and dynamically adaptable to changes in parameters such as number of active users (associated with terminals) (Fig. 2, col. 6 line 11 and lines 21-25).

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to combine the teachings of Tanaka to include dynamically adjusting the plurality of different common software content in proportion to a changing number of users as taught by Varanasi because it would improve bandwidth utilization of a channel so as to maximize the data throughput over the channel (Varanasi, col. 1 lines 48-49).

Regarding claim 9, Tanaka teaches a radio communication network software downloading method (see Fig. 3), comprising:

transmitting software content from a radio communication network to a plurality of terminals in the network by multiplexing the software content on a shared communication channel received by the plurality of terminals (i.e., supplying software

from the bass station to mobile station based on a time-division multiplex transmission scheme using a broadcast channel, col. 8 lines 57-59).

Tanaka does not explicitly teach dynamically adjusting the software content multiplexed on the shared communication channel.

Varanasi teaches spread spectrum signals may be dynamically allocated (Fig. 2 col. 6 line 11 and 21-25).

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to combine the teaching of Tanaka to include the spread spectrum signals may be dynamically allocated because it would improve the bandwidth utilization of a channel so as to maximize the data throughput over the channel (Varanasi, col. 1 lines 48-49).

Regarding claim 10, Tanaka-Varanasi teaches the method of claim 9,

Tanaka does not explicitly teach dynamically adjusting the software content multiplexed on the shared communication channel from a radio device management server in communication with the radio communication network.

Varanasi teaches spread spectrum signals may be dynamically allocated (Fig. 2 col. 6 line 11 and 21-25).

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to combine the teaching of Tanaka to include the spread spectrum signals may be dynamically allocated because it would improve the

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bandwidth utilization of a channel so as t maximize the data throughput over the channel (Varanasi, col. 1 lines 48-49).

Regarding claim 15, Tanaka-Varanasi teaches the method of claim 9,

Tanaka teaches the software content comprises a plurality of software files (i.e., plurality of system software items, col. 10 line 67-col. 15 line 1).

Tanaka-Varanasi does not explicitly teach dynamically adjusting the software content multiplexed on the shared communication channel based upon at least one of file size and a number of the plurality of terminals receiving the software files.

Varanasi teaches dynamically adjusting the plurality of different common software content in proportion to a changing number of users (associated with terminals) (Fig. 2, col. 6 -11 and lines 21-25).

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to combine the teachings of Tanaka to include dynamically adjusting the plurality of different common software content in proportion to a changing number of users as taught by Varanasi because it would improve bandwidth utilization of a channel so as to maximize the data throughput over the channel (Varanasi, col. 1 lines 48-49).

Regarding claim 16, Tanaka teaches the method of claim 9, receiving confirmation from each of the plurality of terminals that received the software content on corresponding dedicated communication channels for each terminal after

transmitting (i.e., mobile station 12 sends a download completion notice/confirmation to base station 2 after receiving the software, col. 7 lines 52-56).

Response to Arguments

6. Applicant's arguments filed 10/14/2005 have been fully considered but they are not persuasive.

In the remarks, applicant argued in substances that

(A) Prior art fails to disclose or suggest terminal unique information is sent on dedicated channel, and common software is sent on broadcast channel.

As to point (A), Regarding claim 1, Tanaka does teach terminal unique information is sent on dedicated channel (i.e., traffic/dedicated channel for transferring user information, col. 3 line 43), and common software is sent on broadcast channel (i.e., supplying system software from the base station to the mobile station using a unidirectional broadcast channel, Figs.3(a) and 3(b), col. 6 lines 7-10 and col. 8 lines 10-12).

(B) Prior art does not disclose or suggest broadcasting content to multiple mobile stations or any or the limitation of claim 2.

As to point (B), Regarding claims 2-4, Tanaka does teach broadcasting content to multiple mobile stations (i.e., supplying system software from the base station to the mobile station(s) using a unidirectional broadcast channel, Figs.3(a) and 3(b), col. 6 lines 7-10 and col. 8 lines 10-12).

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(C) There is no suggestion to combine the references.

As to point (C), Regarding claims 5 and 18, in response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, **Tanaka** teaches a mobile communication system where in software is downloaded/distributed to terminal (see abstract). **Wiehler** teaches method for controlling distribution of software by providing digital signature to terminal (col. 5 lines 34-43). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the digital signature of **Wiehler** in the process of distributing/downloading software in **Tanaka**. One would be motivated to do so to allow the enhancement of security to be achieved (**Wiehler**, col. 6 lines 17-19).

(D) Prior Art fails to disclose or suggest receiving confirmation from each of the plurality of terminals that received the software content on corresponding dedicated communication channels for each terminal after transmitting.

As to point (D), Tanaka does teach receiving confirmation from each of the plurality of terminals that received the software content on corresponding dedicated

communication channels for each terminal after transmitting (i.e., mobile station 12 sends a download completion notice/confirmation to base station 2 after receiving the software, col. 7 lines 52-56).

(E) Prior art does not multiplex software content on a shared communication channel.

As to point (E), Tanaka does teach multiplex software content on a shared communication channel (i.e., supplying software from the base station to mobile station(s) based on a time-division multiplex transmission scheme using a broadcast channel, col. 8 lines 57-59).

(F) Prior art does not teach or suggest multiplexes different software content on a shared communication channel, nor dynamically adjusts the multiplexed software in proportion to a changing number of terminals receiving the software.

As to point (F), Tanaka does teach multiplexes different software content on a shared communication channel (i.e., supplying software from the base station to mobile station(s) based on a time-division multiplex transmission scheme using a broadcast channel, col. 8 lines 57-59).

Claims 10, 15 and 16 are also rejected at least by virtue of the dependency on independent claims and by other reasons set forth in above rejection. According, claims 1-19 are respectfully rejected.

As a result, the cited prior arts do disclose a radio communication network software downloading methods as broadly claimed by the applicants. Applicants clearly have still failed to identify specific claim limitations that would define a clearly patentable distinction over prior arts.

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Oanh Duong whose telephone number is (571) 272-3983. The examiner can normally be reached on Monday- Friday, 2:00PM - 10:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

O.D January 4, 2006

SUPERVISORY PATENT EXAMINER